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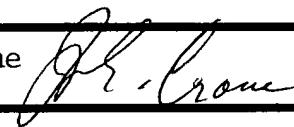
Application Number	10/022,276	RECEIVED
Filing Date	14-Dec-2001	MAR 07 2002
First Named Inventor	Gosselin, et al.	TECH CENTER 1600/2900
Group Art Unit	1623	
Examiner Name	L. Eric Crane	

Attorney Docket Number 06171.105005 (NOV 1000 CON)

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
EE	AA	4,916,122	A	Chu et al.	04-10-1990	
EE	AB	4,957,924	A	Beauchamp	09-18-1990	
EE	AC	5,190,926	A	Chu et al.	03-02-1993	
EE	AD	5,194,654	A	Hostetler et al.	03-16-1993	
EE	AE	5,223,263	A	Hostetler et al.	06-29-1993	
EE	AF	5,256,641	A	Yatvin et al.	10-01-1993	
EE	AG	5,411,947	A	Hostetler et al.	05-02-1995	
EE	AH	5,463,092	A	Hostetler et al.	10-31-1995	
EE	AI	5,539,116	A	Liotta et al.	07-23-1996	
EE	AJ	5,543,389	A	Yatvin et al.	08-06-1996	
EE	AK	5,543,390	A	Yatvin et al.	08-06-1996	
EE	AL	5,543,391	A	Yatvin et al.	08-06-1996	
EE	AM	5,554,728	A	Basava et al.	09-10-1996	
		5,559,101		Weis et al.	09-24-1996	
EE	AO	5,565,438	A	Chu et al.	10-15-1996	
EE	AP	5,567,688	A	Chu et al.	10-22-1996	
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**		5,939,402		Weis et al.	08-17-1999	
**		6,025,335		Weis et al.	02-15-2000	
EE	AR	6,194,391	B1	Schinazi et al.	02-27-2001	
EE	AS	6,245,749	B1	Schinazi et al.	06-12-2001	

** Duplicate: see PTO-892 for cite.

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		Office ³	Number	Kind Code ² (if known)				
Re	AT	WO	89/02733	A1	University of California	04-06-1989		
Re	AU[WO	90/00555	A1	Vical, Inc.	01-25-1990		
Re	AV	WO	91/16920	A1	Vical, Inc..	11-14-1991		
Re	AW	WO	91/18914	A1	Vical, Inc.	12-12-1991		
Re	AX	WO	91/19721	A1	Glazier	12-26-1991		
Re	AY	WO	92/08727	A1	CNDR (Italy)	05/29/92		
Re	AZ	WO	92/15308	A1	Wellcome	09-17-1992		
Re	BA	WO	92/18517	A1	Yale et al.	10-29-1992		
Re	BB	WO	93/00910	A1	Vical, Inc.	01-21-1993		
**		WO	94/20523		Burroughs Wellcome	09-15-1994		
Re	BC	WO	94/26273	A1	Hostetler	11-24-1994		
Re	BD	WO	95/07086	A1	Emory University	03/16/95		
Re	BE	WO	96/13512	A2	Genencor	05-09-1996		
Re	BF	WO	96/15132	A1	University of California	05-23-1996		
Re	BG	WO	96/40164	A1	Emory University	12-19-1996		
Re	BH	EP	0 350 287	A2	Vical, Inc.	02-10-1990		
Re	BI	EP	0 494 119	A1	BioChem Pharma	07-08-1992		
Re	BJ	JP	06-293645	A2	Saneyoshi et al.	10-21-1994	Abstract only	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
Re	BK	BLOCH, et al. "The Role Of The 5'-Hydroxyl Group Of Adenosine In Determining Substrate Specificity For Adenosine Deaminase." <i>J. Med. Chem.</i> 10(5), 908-12 (September 1967).	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
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ME	BL	BRYANT et al., "Antiviral L-Nucleosides Specific for Hepatitis B Virus Infection," <i>Antimicrobial Agents and Chemotherapy</i> , 45(1), 229-235 (January 2001).			T ⁶
ME	BL	CHANG, et al., "Deoxycytidine Deaminase-resistant Stereoisomer is the Active Form of (-)-2',3'-thiacytidine in the Inhibition of Hepatitis B Virus Replication," <i>Journal of Biological Chemistry</i> , Volume 267(20), 13938-13942 (July 15, 1992).			
ME	BM!	DAVISSON, et al., "Synthesis of Nucleotide 5'-Diphosphates from 5'-O-Tosyl Nucleosides," <i>J. Org. Chem.</i> , 52(9), 1794-1801 (1987).			
ME	BN	DU et al, Synthesis, "Anti-Human Immunodeficiency Virus and Anti-Hepatitis B Virus Activities of Novel Oxaselenolane Nucleosides," <i>J. of Med. Chem.</i> , (40)19, 2991-2993 (September 12, 1997).			
ME	BO	FURMAN, et al., "The Anti-Hepatitis B Virus Activities, Cytotoxicities, and Anabolic Profiles of the (-) and (+) Enantiomers of cis-5-Fluoro-1-[2-(Hydroxymethyl)-1,3-oxathiolane-5-yl]-Cytosine" <i>Antimicrobial Agents and Chemotherapy</i> , 36(12) 2686-2692 (December 1992).			
ME	BP	GOSSELIN, G. et al. "Synthesis and Antiviral Evaluation of β-L-Xylofuranosyl Nucleosides of the Five Naturally Occuring Nucleic Acid Bases", <i>Journal of Heterocyclic Chemistry</i> , 1993, 30 (Oct.- Nov.), 1229-1233.			
ME	BO!	HOARD, et al., "Conversion of Mono- and Oligodeoxyribonucleotides to 5'-Triphosphates," <i>J. Am. Chem. Soc.</i> , 87(8), 1785-1788 (1965).			
ME	BR!	HOLY. "Nucleic Acid Components and Their Analogs. CLIII. Preparation of 2'-deoxy-L-Ribonucleosides of the Pyrimidine Series," <i>Collect. Czech. Chem. Commun.</i> (1972), 37(12), 4072-87.			
ME	BS	HOSTETLER, K.Y., et al. "Greatly Enhanced Inhibition Of Human Immunodeficiency Virus Type 1 Replication In CEM And HT4-6C Cells By 3'-Deoxythymidine Diphosphate Dimyristoylglycerol, A Lipid Prodrug Of 3'-Deoxythymidine." (September 1992) <i>Antimicrob Agents Chemother</i> . 36:2025-2029.			
ME	BT	HOSTETLER, K.Y., et al. "Synthesis And Antiretroviral Activity Of Phospholipid Analogs Of Azidothymidine And Other Antiviral Nucleosides." (April 15, 1990) <i>J. Biol Chem.</i> 265(11):6112-7.			

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10/022,276

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First Named Inventor

Gosselin, et al. TECH CENTER 1600/2900

Group Art Unit

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Examiner Name

L. Eric Crane

Attorney Docket Number

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
Re	BU	IMAI et al., "Studies on Phosphorylation. IV. Selective Phosphorylation of the Primary Hydroxyl Group in Nucleosides." <i>J. Org. Chem.</i> , 34(6), 1547-1550 (June 1969).	
Re	BV	JONES, R. et al., "Mini Review: Nucleotide prodrugs," <i>Antiviral Research</i> , 27, 1-17 (1995).	
Re	BW!	KORBA et al., "A cell culture assay for compounds which inhibit hepatitis B virus replication," <i>Antiviral Res.</i> , 15:217 (1991).	
Re	BX	KUCERA, L.S., et al., "Novel membrane-interactive ether lipid analogs that inhibit infectious HIV-1 production and induce defective virus formation." <i>AIDS Res Hum Retroviruses</i> . 6:491-501 (May 1990).	
Re	BY	LIN et al., "Synthesis of Several Pyrimidine L-Nucleoside Analogues as Potential Antiviral Agents," <i>Tetrahedron</i> , Vol. 51(4), 1055,1068 (1995).	
Re		LIN et al., "Design and Synthesis of 2',3'-Dideoxy-2', 3'-didydro-β-L-cytidine (β-L-Fd4C), Two Exceptionally Potent Inhibitors of Human HBV and Potent Inhibitors of HIV <i>In Vitro</i> ," <i>J. Med. Chem.</i> , 39(9), 1757-1759 (April 26,1996).	
Re	BZ	MAGA et al., "Lack of stereospecificity of suid pseudorabies virus thymidine kinase," <i>Biochem. J.</i> , 294(2); 381-385 (September 1, 1993).	
Re		MANSOUR et al., "Stereocchemical Aspects of the Anti-HCMV Activity of Cytidine Nucleoside Analogues," <i>Antiviral Chemistry & Chemotherapy</i> , 6(3), 138-142 (1995).	
Re	CA	NAKAYAMA, C., et al., "Synthetic Nucleosides and Nucleotides. XX. Synthesis of Various 1-β-Xylofuranosyl-5-Alkyluracils and Related Nucleosides." <i>Nucleosides, Nucleotides</i> , 1, 139-146 (1982)	
Re	CB	NORBECK, <i>Tetrahedron Letters</i> , 30 (46), 6246 (1989)	
Re	CC	ROBINS, M. J. et al. "Purine nucleosides. XXIX. The synthesis of 2'-deoxy-L-adenosine and 2'-deoxy-L-guanosine and their alpha anomers." <i>J. Org. Chem.</i> March 1970, 35, 636-639.	
Re	CD	ROBINS, M.J., et al., "Nucleic Acid Related Compounds. 42. A General Procedure for the Efficient Deoxygenation of Secondary Alcohols. Regiospecific and Stereoselective Conversion of Ribonucleosides to 2'-Deoxynucleosides." <i>J. Am. Chem. Soc.</i> 105, 4059-4065 (1983). (June 15, 1983)	

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		ROBINS, "Selective Deoxygenation and Modification at C2' of Nucleosides," <i>Nucleic Acids Research Symposium Series</i> , Vol. 11, Pages 1-4, Kyoto, Japan, November 24-26, 1982, A.E. Pritchard (ed.), IRL Press, Ltd., Oxford, England, 1982;	
	CE	SANEYOSHI, M., et al., "Synthetic Nucleosides and Nucleotides. XIII. Stannic Chloride Catalyzed Ribosylation of Several 6-Substituted Purines." <i>Chem. Pharm. Bull.</i> , 27, 2518-2521 (1979);	
	CF	SCHINAZI, et al., "Selective Inhibition of Human Immunodeficiency Viruses by Racemates and Enantiomers of cis-5-Fluoro-1-[2-(Hydroxymethyl)-1,3-Oxathiolane-5-yl] Cytosine," <i>Antimicrobial Agents and Chemotherapy</i> , 36(11), 2423-2431 (1992). (November, 1992)	
	CG	SCHINAZI, et al., "Effect of Combinations of Acyclovir with Vidarabine or its 'Monophosphate' on Herpes Simplex Viruses in Cell Culture and in Mice," <i>Antimicrobial Agents and Chemotherapy</i> , 22(3), 499, (1982). (July, 1982)	
	CH	SHUTO, S., et al. "A facile one-step synthesis of 5'-phosphatidyl nucleosides by an enzymatic two-phase reaction." <i>Tetrahedron Letters</i> . 28, 199-202 (1987).	
		SPADARI et al., "L Thymidine is Phosphorylated by Herpes Simplex Type 1 Thymidine Kinase and Inhibits Viral Growth," <i>J. Med. Chem.</i> (1992), 35(22), 4214-4220.	
	CI	TYRSTED et al. "Inhibition of the synthesis of 5-phosphoribosyl-1-pyrophosphate by 3'-deoxyadenosine and structurally related nucleoside analogs." <i>Biochim. Biophys. Acta</i> . (February 26, 1968), 155(2), 619-22.	
	CJ	VERRI et al. "Lack of enantiospecificity of human 2'-deoxycytidine kinase: relevance for the activation of beta-L-deoxycytidine analogs as antineoplastic and antiviral agents." <i>Molecular Pharmacology</i> . (January 1997), 51(1), 132-138.	
		VERRI et al., "Relaxed Enantioselectivity of Human Mitochondrial Thymidine Kinase and Chemotherapeutic Uses of L-Nucleoside Analogues," <i>Biochem. J.</i> (1997), 328(1), 317-320 (November 15, 1997).	

** Duplicate; see PTO-892.

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AA		von JANTA-LIPINSKI et al., "Newly Synthesized L-Enantiomers of 3'-Fluoro-Modified β-2'-Deoxyribonucleoside 5'-Triphosphates Inhibit Hepatitis B DNA Polymerase but not the Five Cellular DNA Polymerases α, β, γ, δ, and ε Nor HIV-1 Reverse Transcriptase," <i>J. Medicinal Chemistry</i> , 41(12), 2040-2046 (June 4, 1996).	
EPC	CK !	ZEDECK et al. "Pseudomonas testosteroni," <i>Mol. Phys.</i> (1967), 3(4), 386-95.	
EPC	CL !	ZHANG, W., et al. "Removal of Silyl Protecting Groups from Hydroxyl Functions with Ammonium Fluoride in Methanol." <i>Tetrahedron Letter.</i> , 33, 1177-1180 (1992).	

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